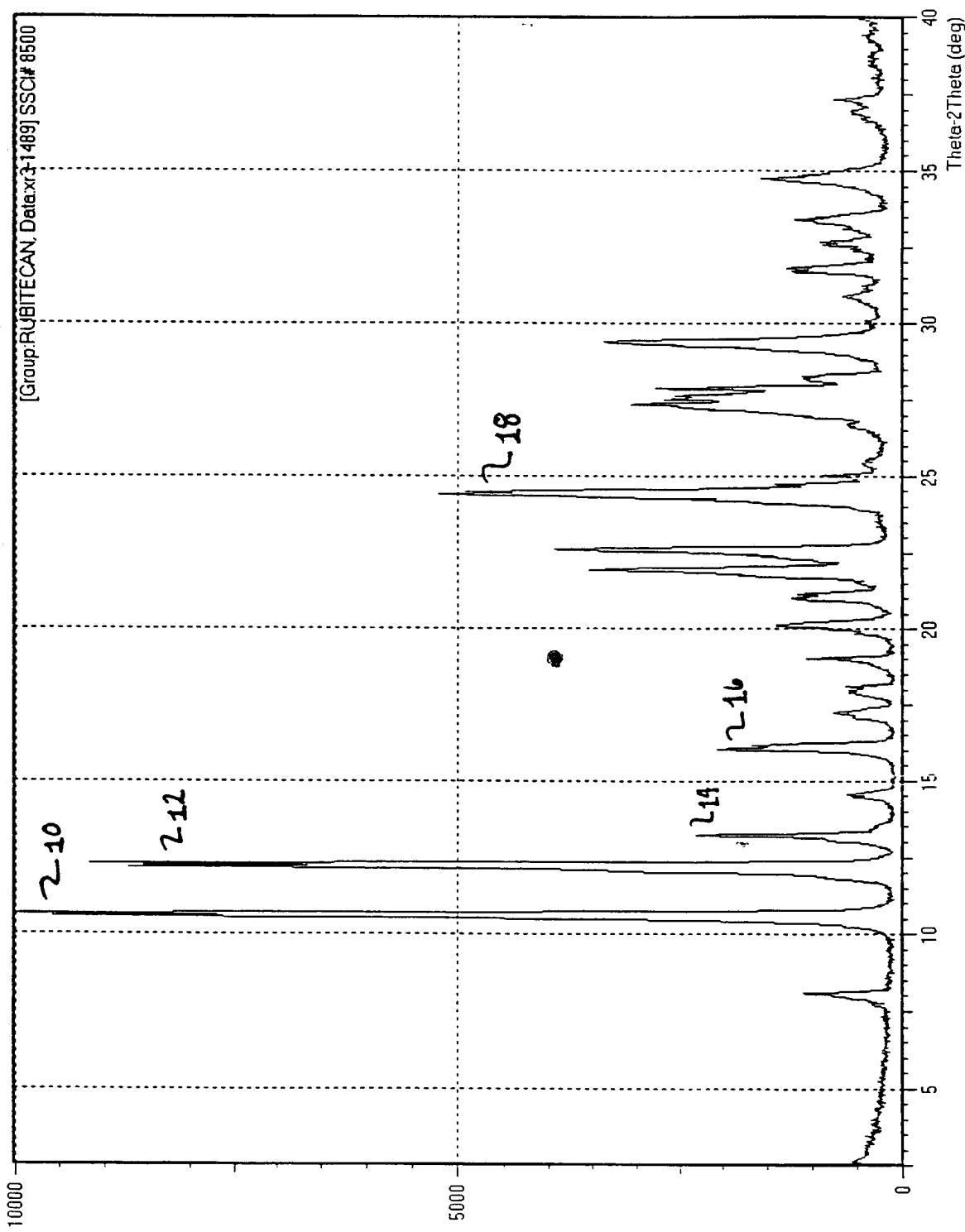
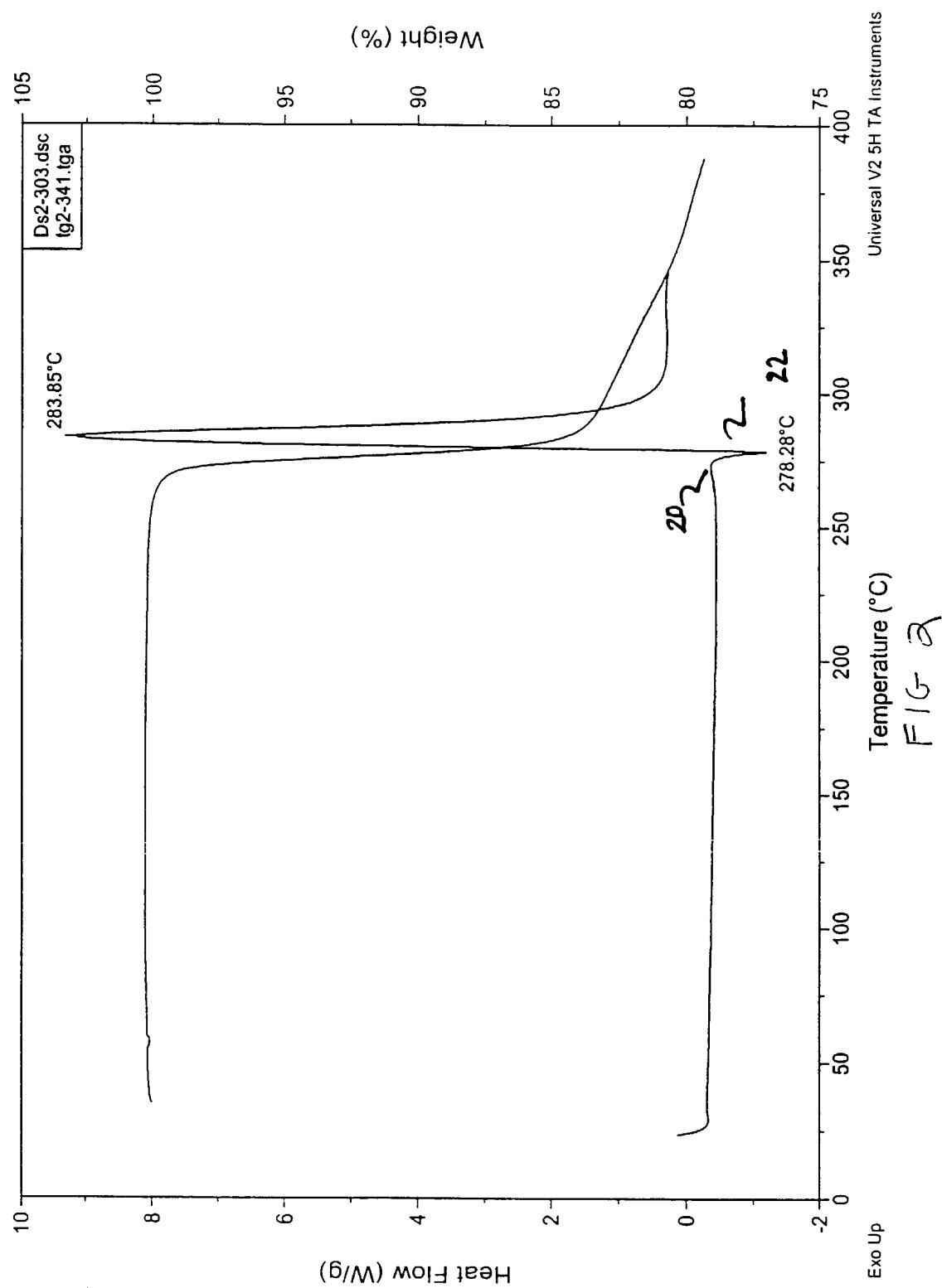


FIG. 1



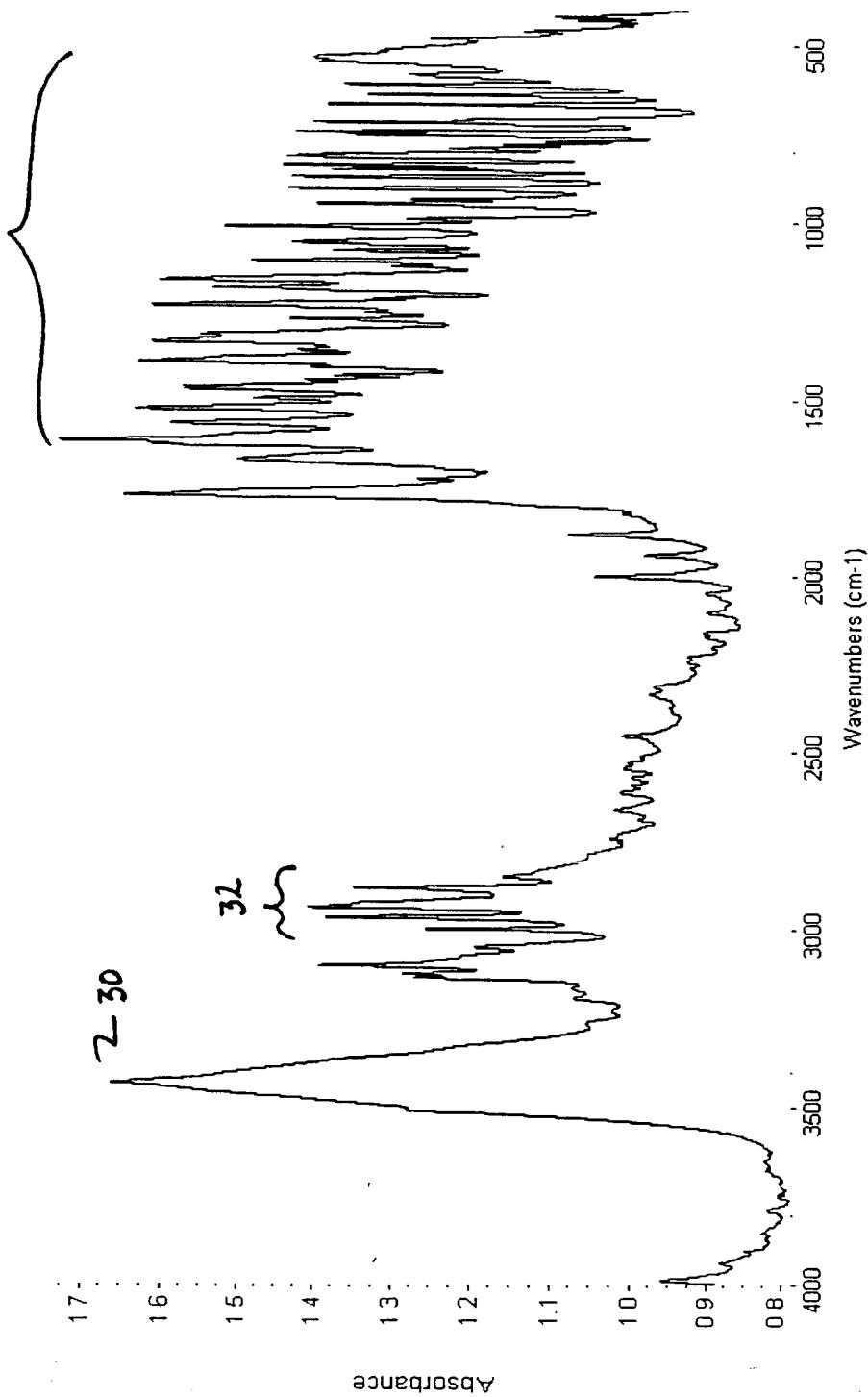
DSC (bottom) and TGA (top) of Rubitecan Form A.



*IR Spectrum, Nicolet model 860 FT-IR*

**Acquisition Parameters**

Collection time: Sat Feb 26 18:06:50 2000  
Number of sample scans: 128  
Number of background scans: 128  
Resolution: 2.000  
Sample gain: 8.0  
Mirror velocity: 0.6329  
Aperture: 69.00

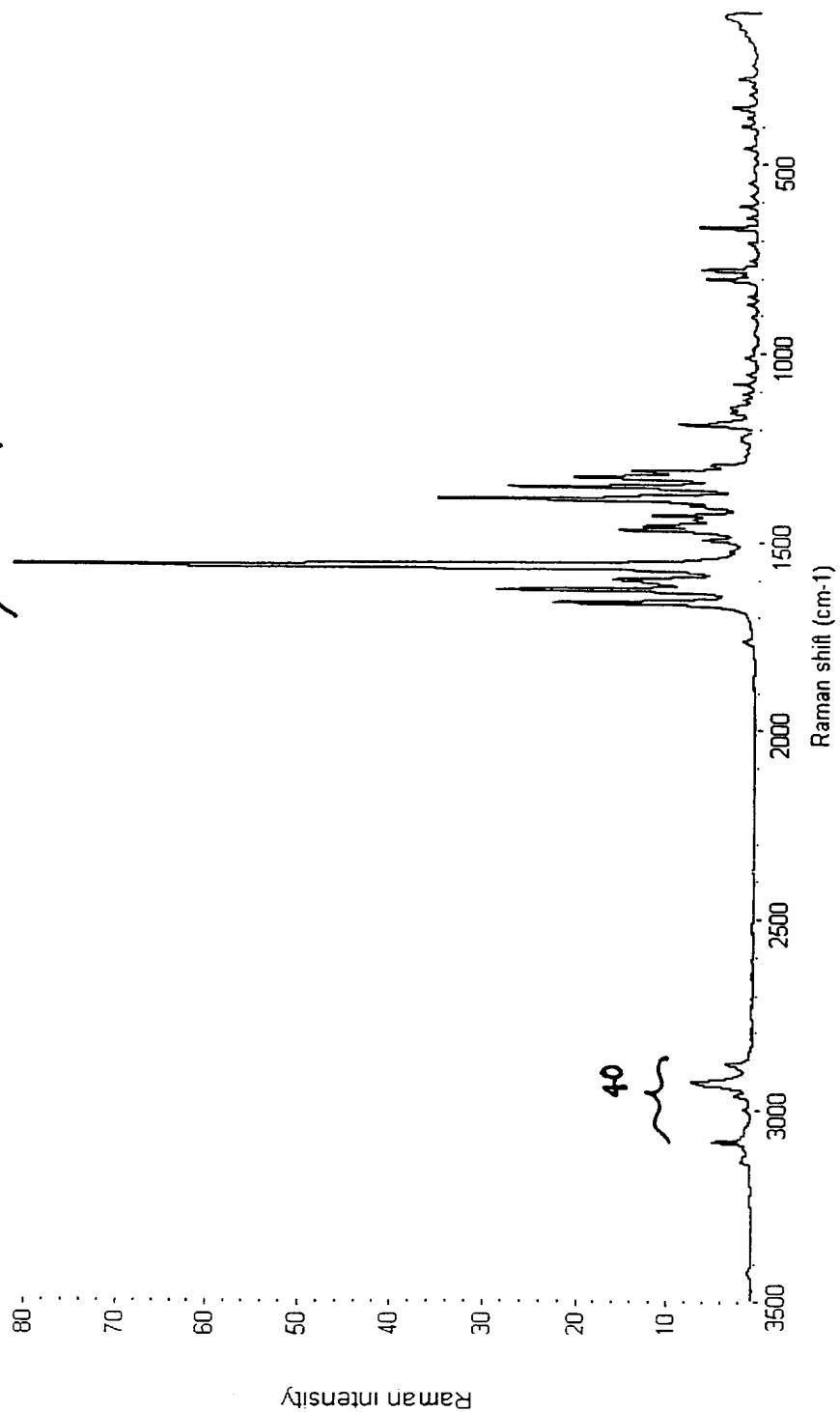


**FIG. 3**

Raman Spectrum, Nicolet model 860 FT-Raman

Acquisition Parameters

Collection time: Sat Feb 26 20 43 15 2000  
Number of sample scans: 128  
Number of background scans: 0  
Resolution: 4.000  
Sample gain: 32.0  
Mirror velocity: 0.3165  
Aperture: 59.00



F16-4

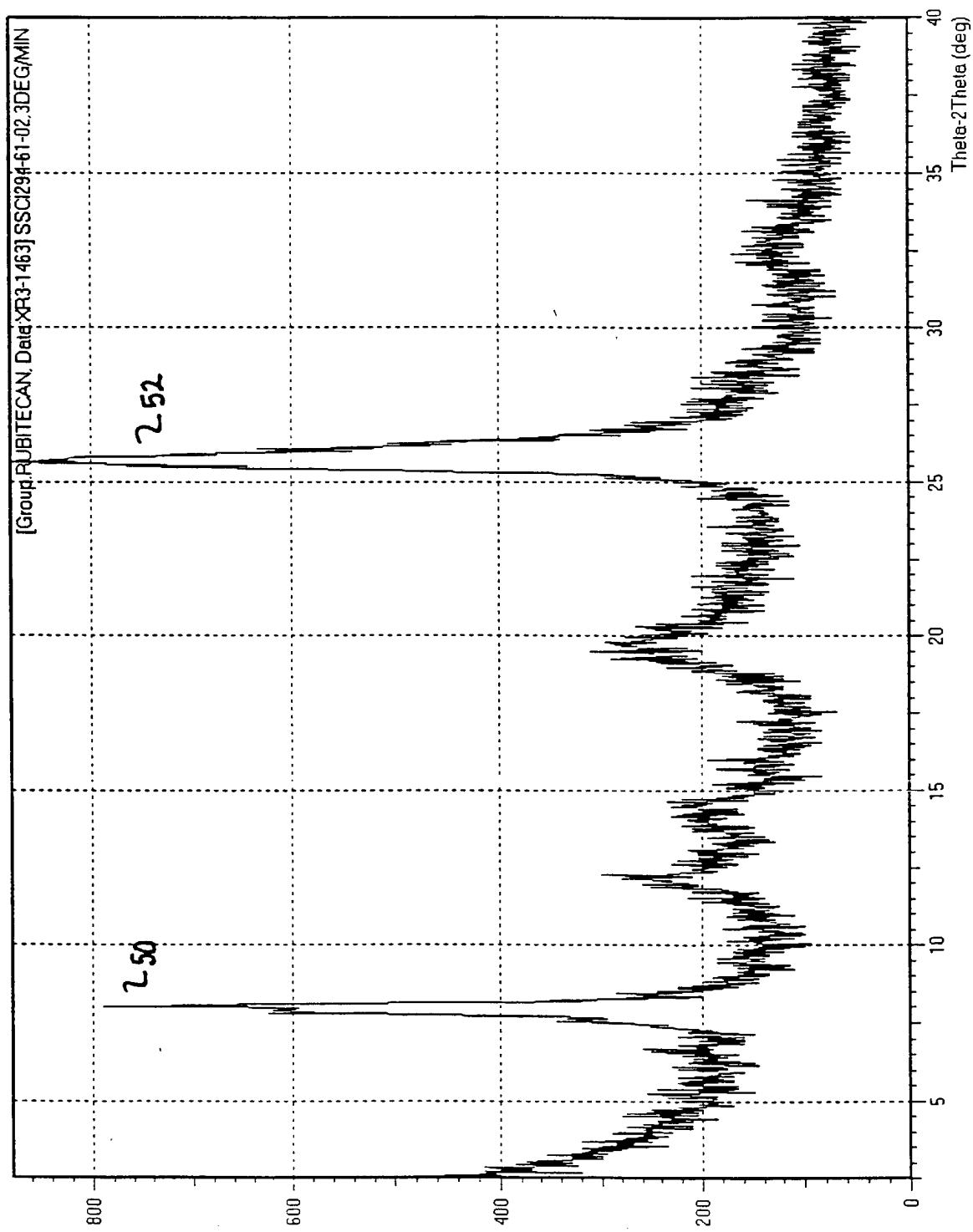
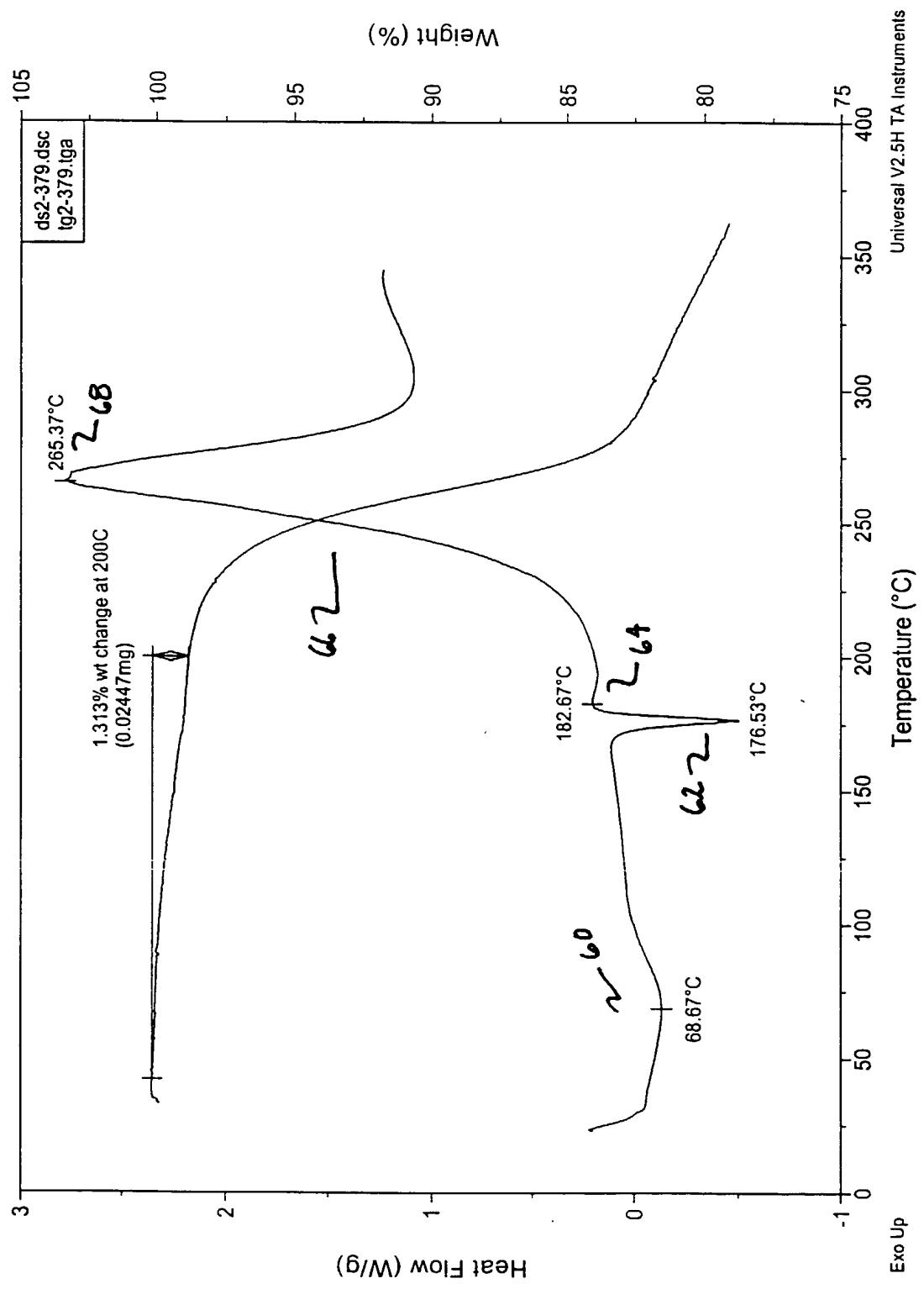


FIG. 5

DSC (bottom) and TGA (top) of Rubitecan Form B.



*IR Spectrum, Nicolet model 860 FT-IR*

**Acquisition Parameters**

Collection time: Sat Feb 26 18:31:51 2000  
Number of sample scans: 128  
Number of background scans: 128  
Resolution: 2.000  
Sample gain: 8.0  
Mirror velocity: 0.6329  
Aperture: 69.00

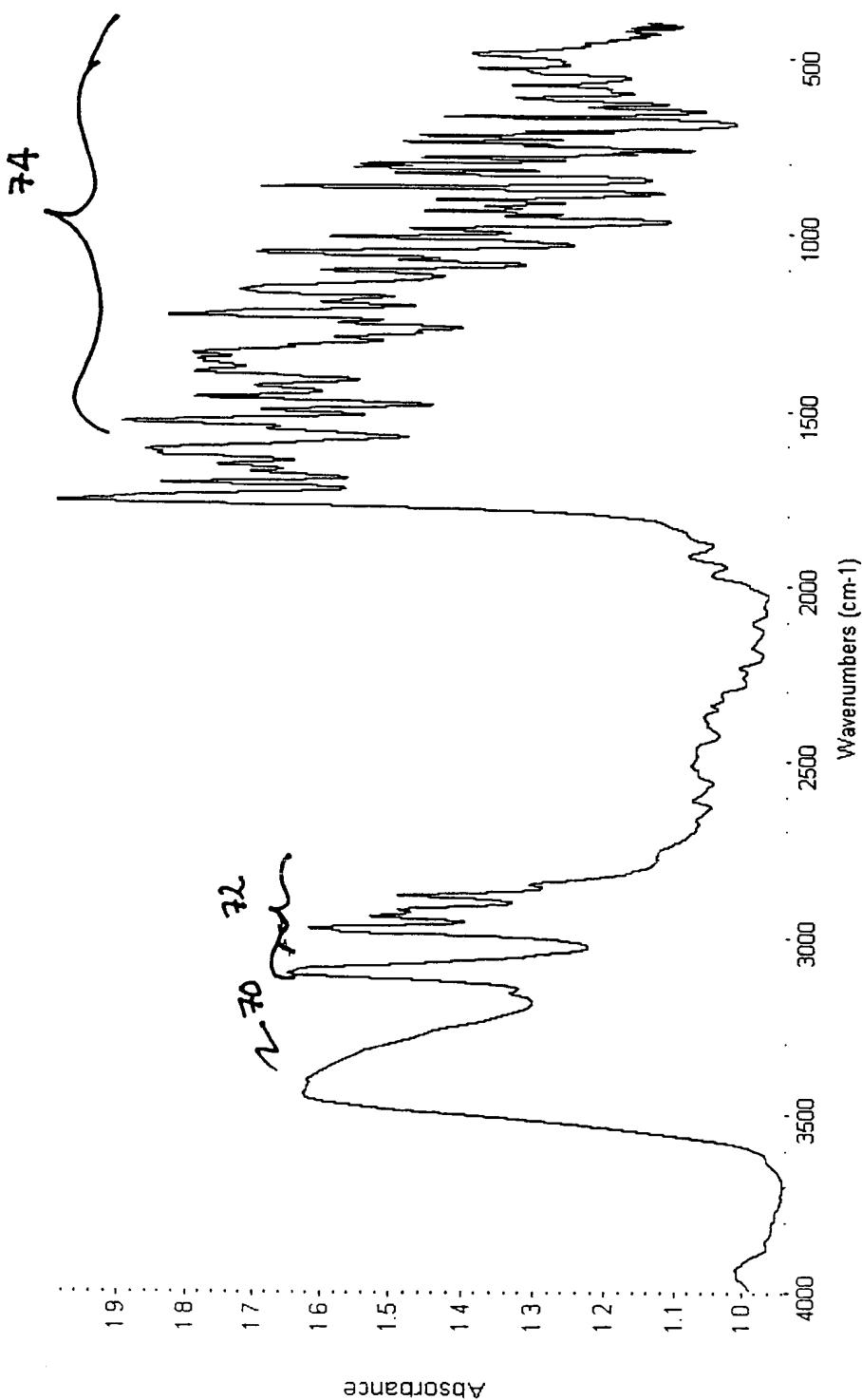


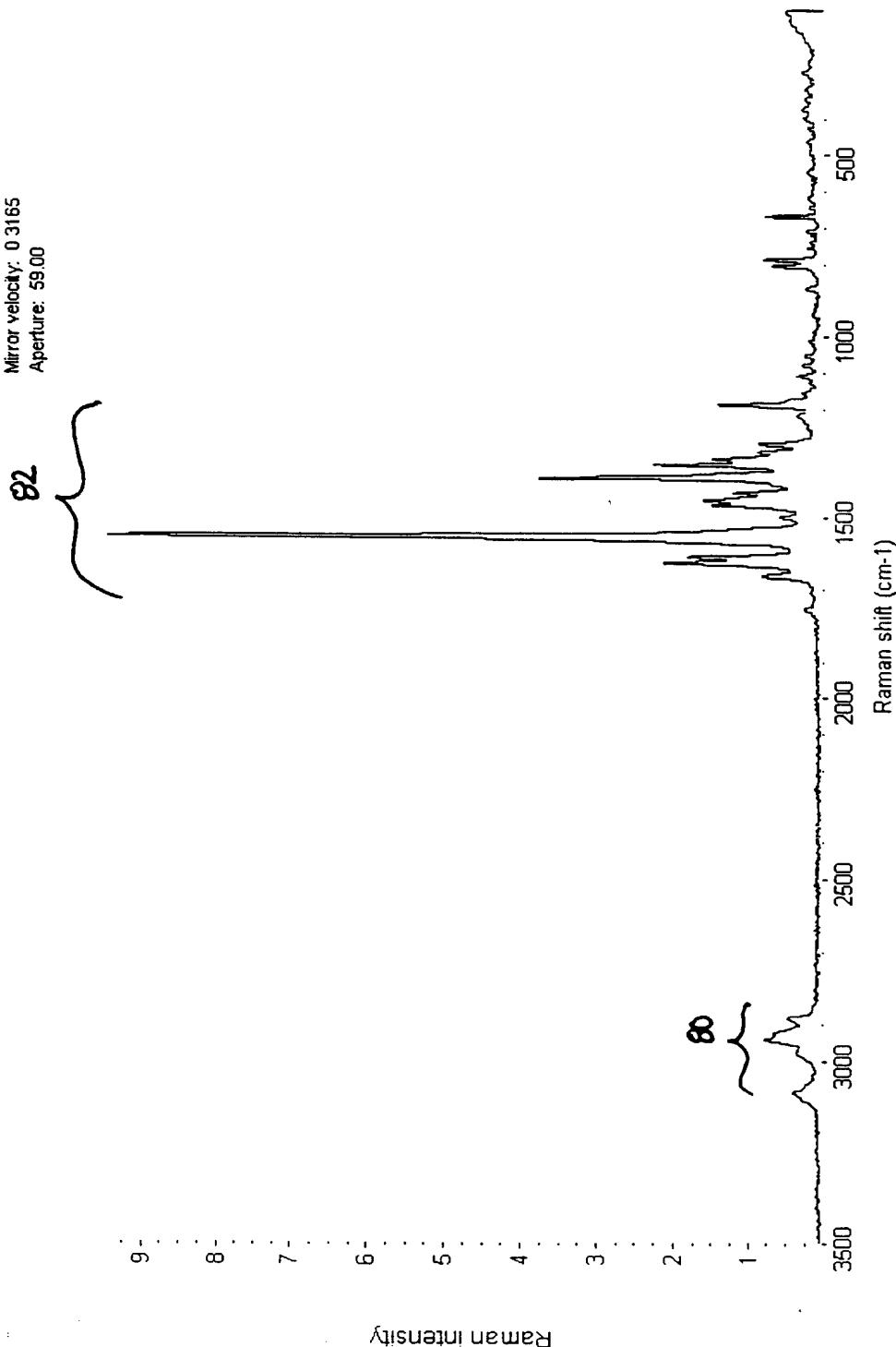
FIG.

7

Raman Spectrum, Nicolet model 860 FT-Raman

Acquisition Parameters

Collection time: Sat Feb 26 21:08:40 2000  
Number of sample scans: 128  
Number of background scans: 0  
Resolution: 4 000  
Sample gain: 64 0  
Mirror velocity: 0.3165  
Aperture: 59.00



8

FIG.

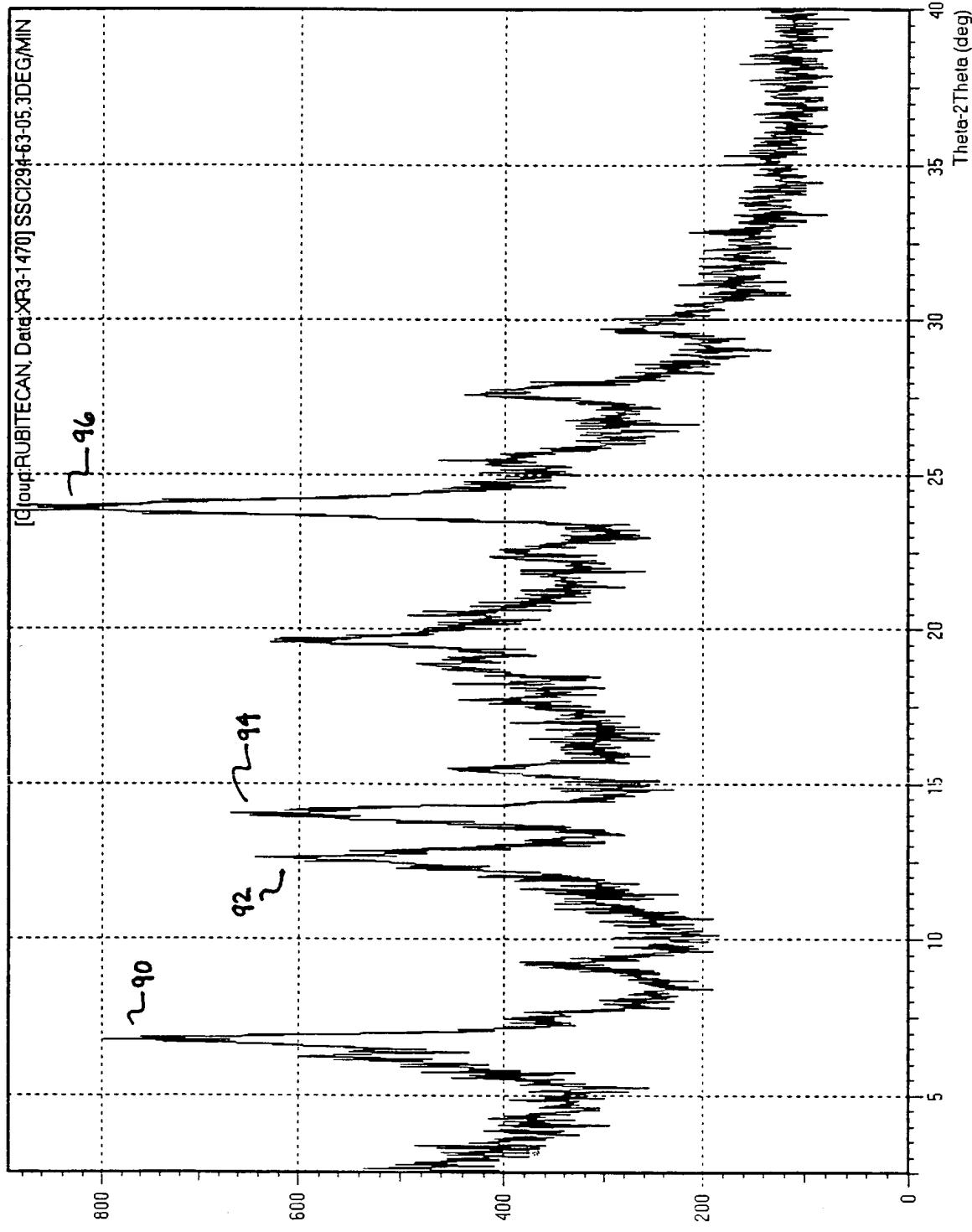
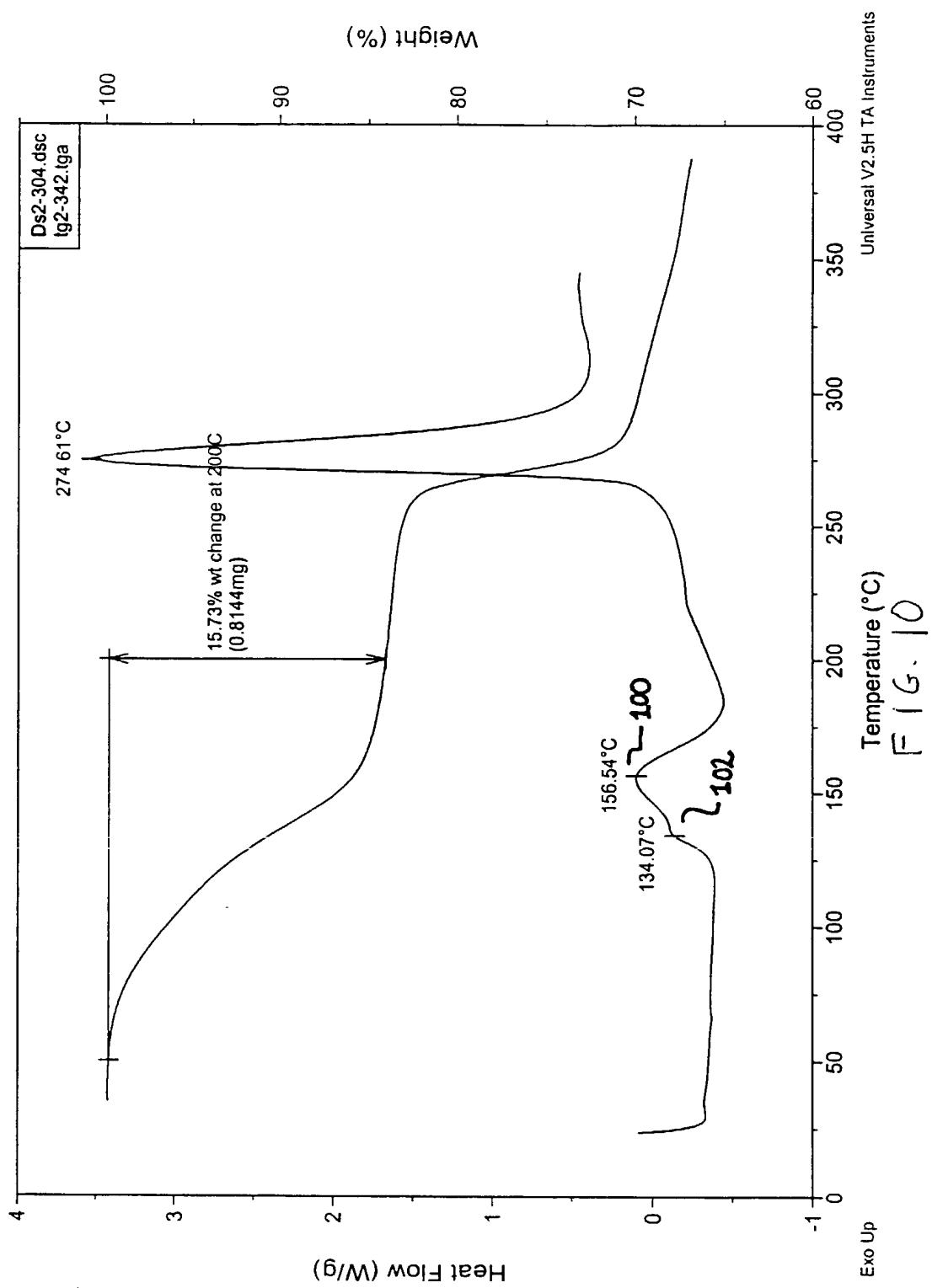


FIG. 9

DSC (bottom) and TGA (top) of Rubitecan Form C.



*IR Spectrum, Nicolet model 860 FT-IR*

**Acquisition Parameters**

Collection time: Sat Feb 26 18:40:03 2000  
Number of sample scans: 128  
Number of background scans: 128  
Resolution: 2.000  
Sample gain: 8.0  
Mirror velocity: 0.6329  
Aperture: 69.00

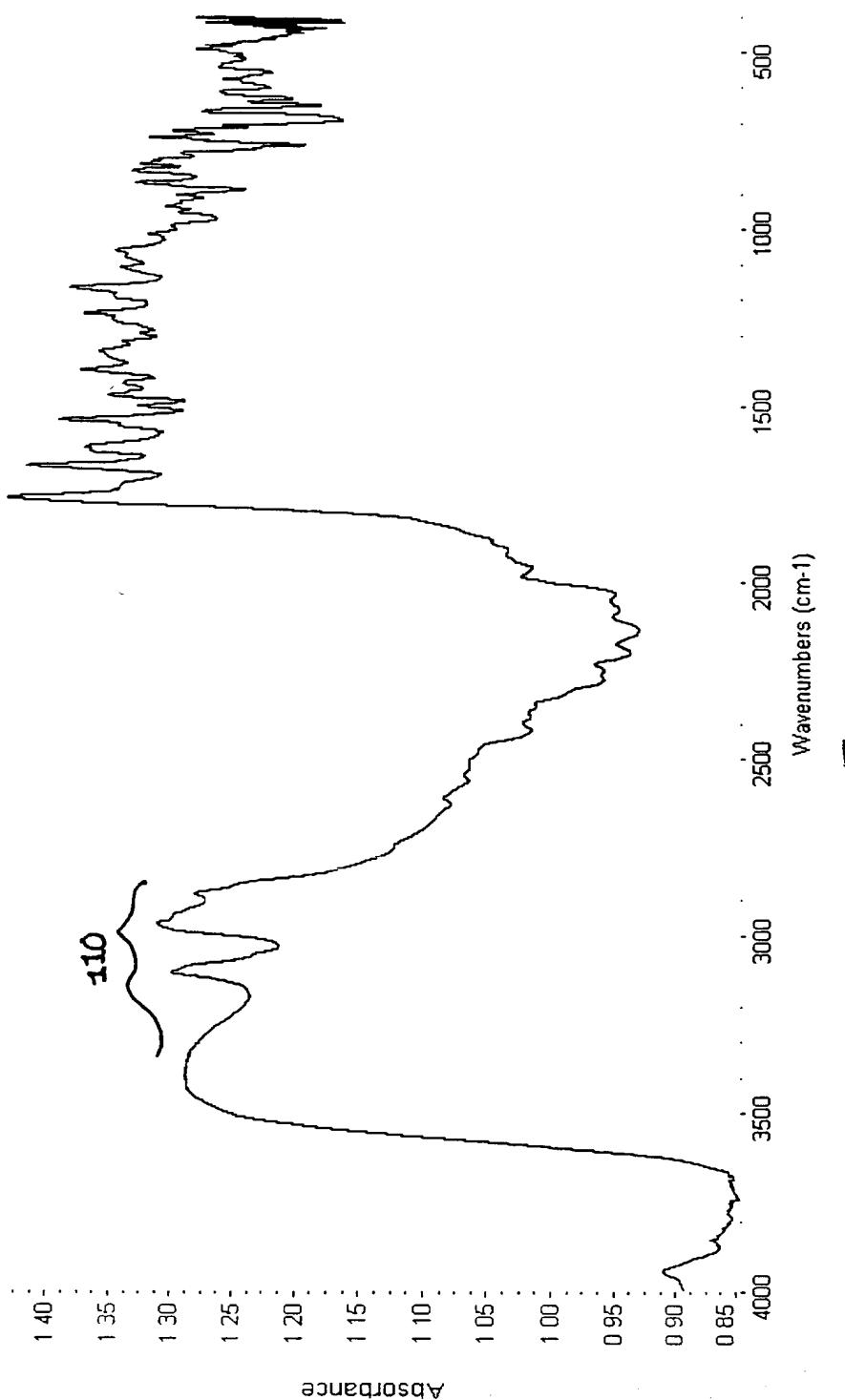


Fig. 11

### Raman Spectrum, Nicolet model 860 FT-Raman

#### Acquisition Parameters

Collection time: Sat Feb 26 21:02:29 2000  
Number of sample scans: 128  
Number of background scans: 0  
Resolution: 4.000  
Sample gain: 64.0  
Mirror velocity: 0.3165  
Aperture: 59.00

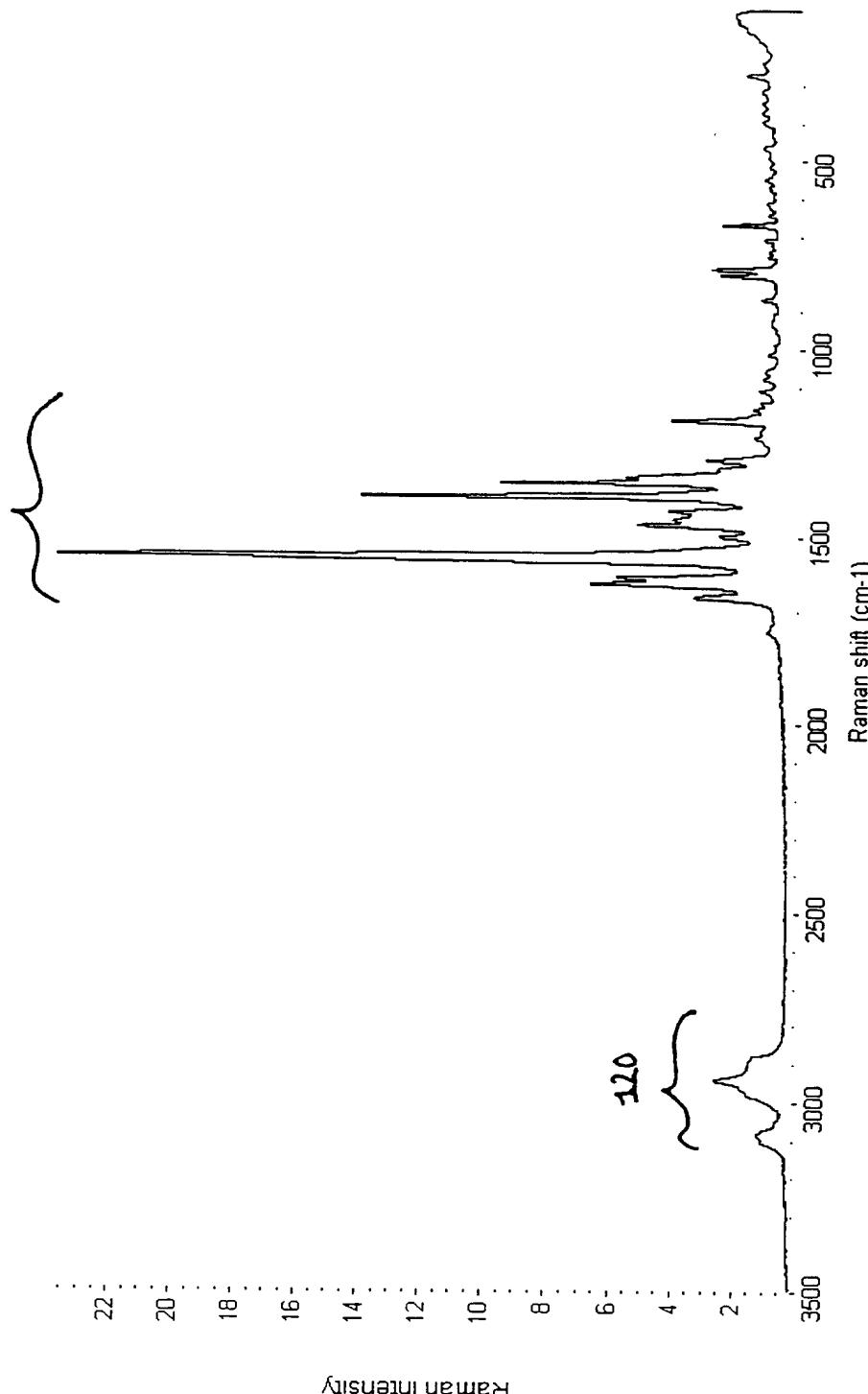


FIG. 12

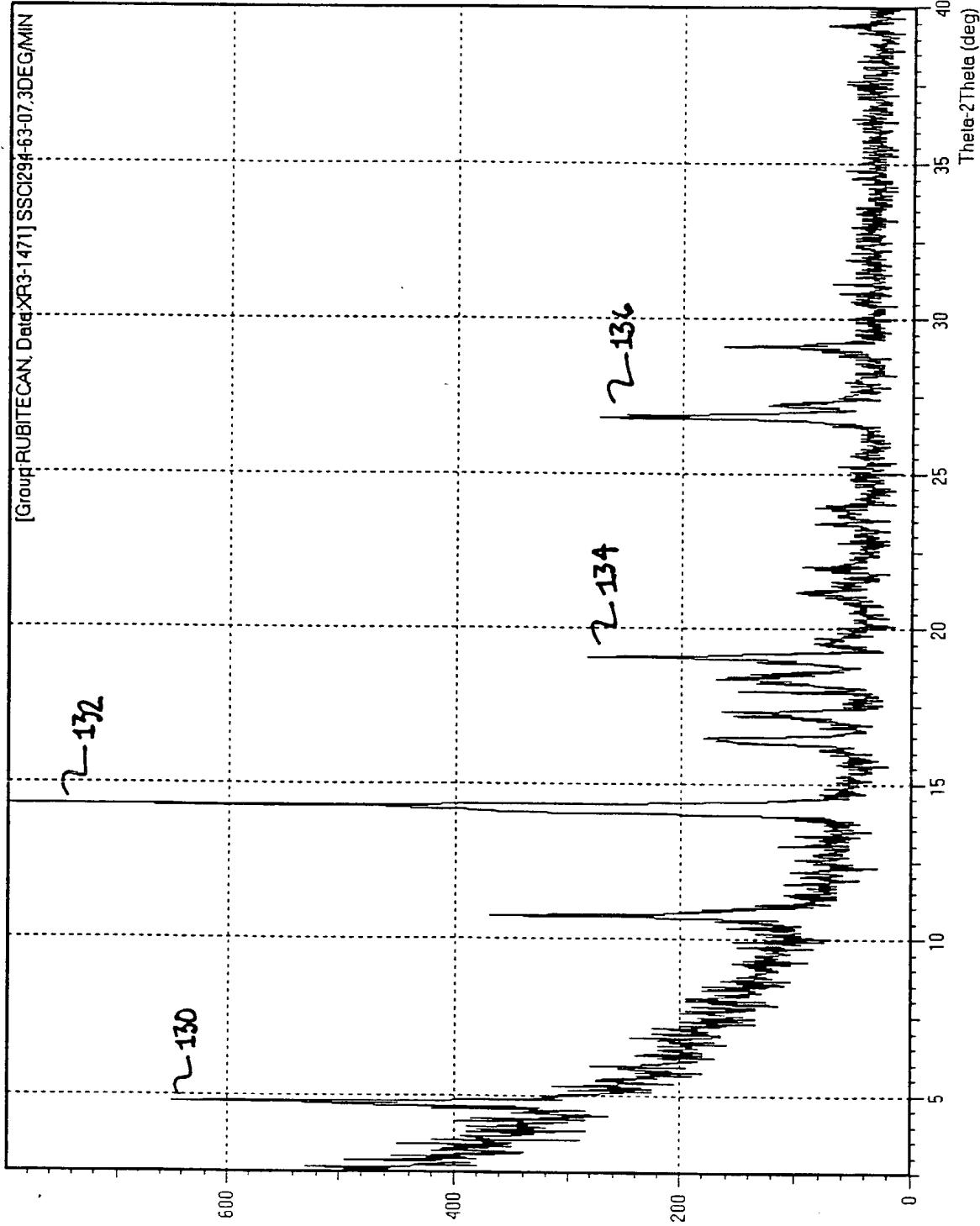
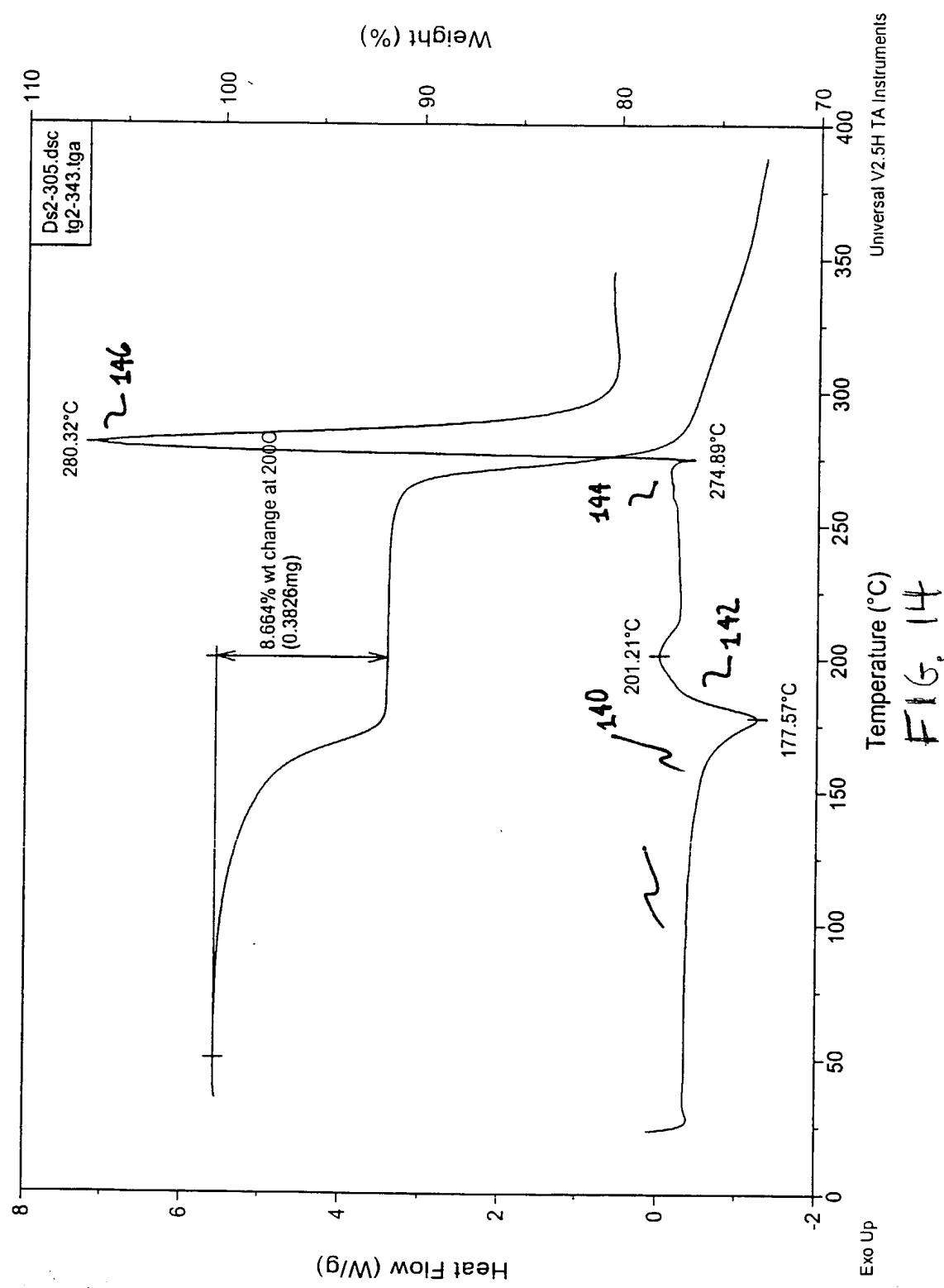


FIG. 13

DSC (bottom) and TGA (top) of Rubitecan Form D.

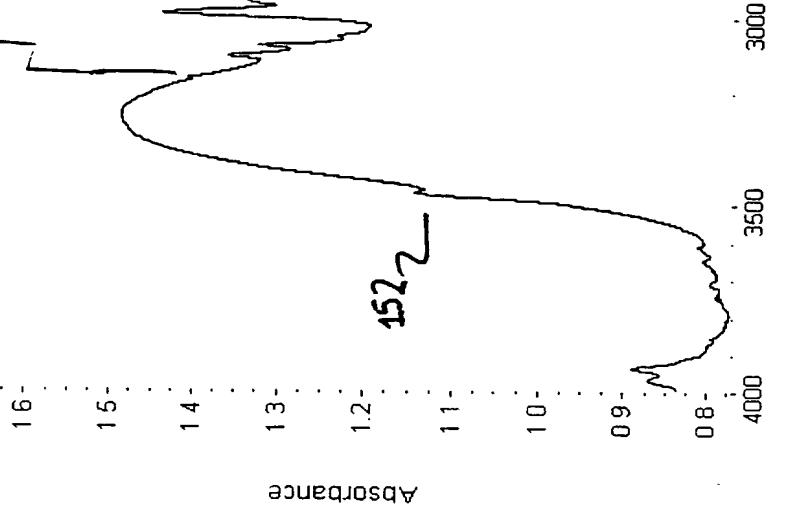


*IR Spectrum, Nicolet model 860 FT-IR*

**Acquisition Parameters**

Collection time: Sat Feb 26 18:22:39 2000  
Number of sample scans: 128  
Number of background scans: 128  
Resolution: 2.000  
Sample gain: 8.0  
Mirror velocity: 0.6329  
Aperture: 69.00

150



Absorbance

1.6  
1.5  
1.4  
1.3  
1.2  
1.1  
1.0  
0.9  
0.8

500  
1000  
1500  
2000  
2500  
3000  
3500  
4000

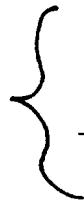
FIG. 15

Raman Spectrum, Nicolet model 860 FT-Raman

Acquisition Parameters

Collection time: Sat Feb 26 20 49 39 2000  
Number of sample scans: 128  
Number of background scans: 0  
Resolution: 4 000  
Sample gain: 64 0  
Mirror velocity: 0.3165  
Aperture: 59 00

162



30 -

25 -

20 -

15 -

10 -

5 -

Raman intensity

169



160



500

1000

1500

2000

2500

3000

3500

Raman shift (cm<sup>-1</sup>)

FIG. 16

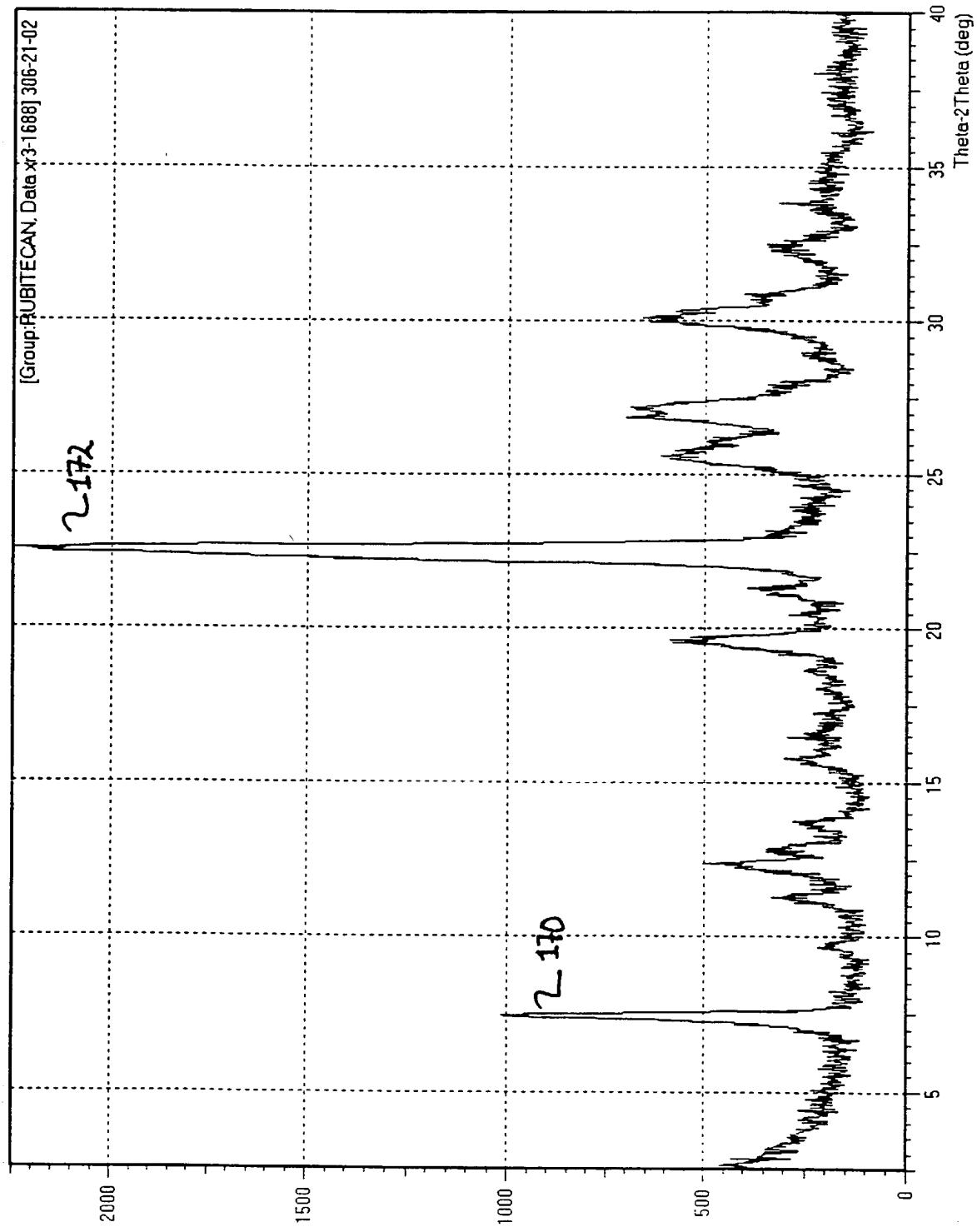
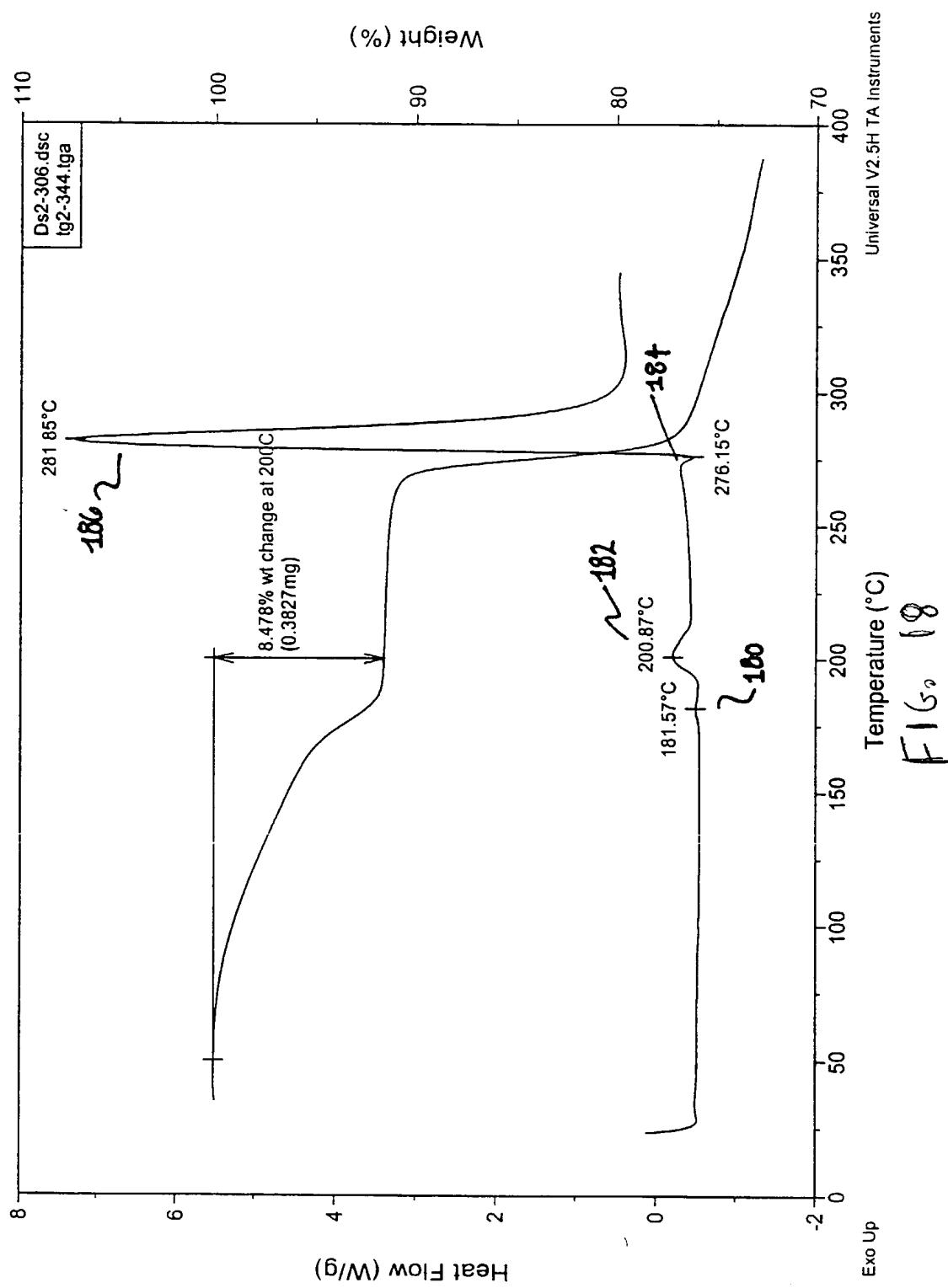


FIG. 17

DSC (bottom) and TGA (top) of Rubitecan Form E.



*IR Spectrum, Nicolet model 860 FT-IR*

**Acquisition Parameters**

Collection time: Sat Feb 26 18:14:49 2000  
Number of sample scans: 128  
Number of background scans: 128  
Resolution: 2.000  
Sample gain: 8.0  
Mirror velocity: 0.6329  
Aperture: 69.00

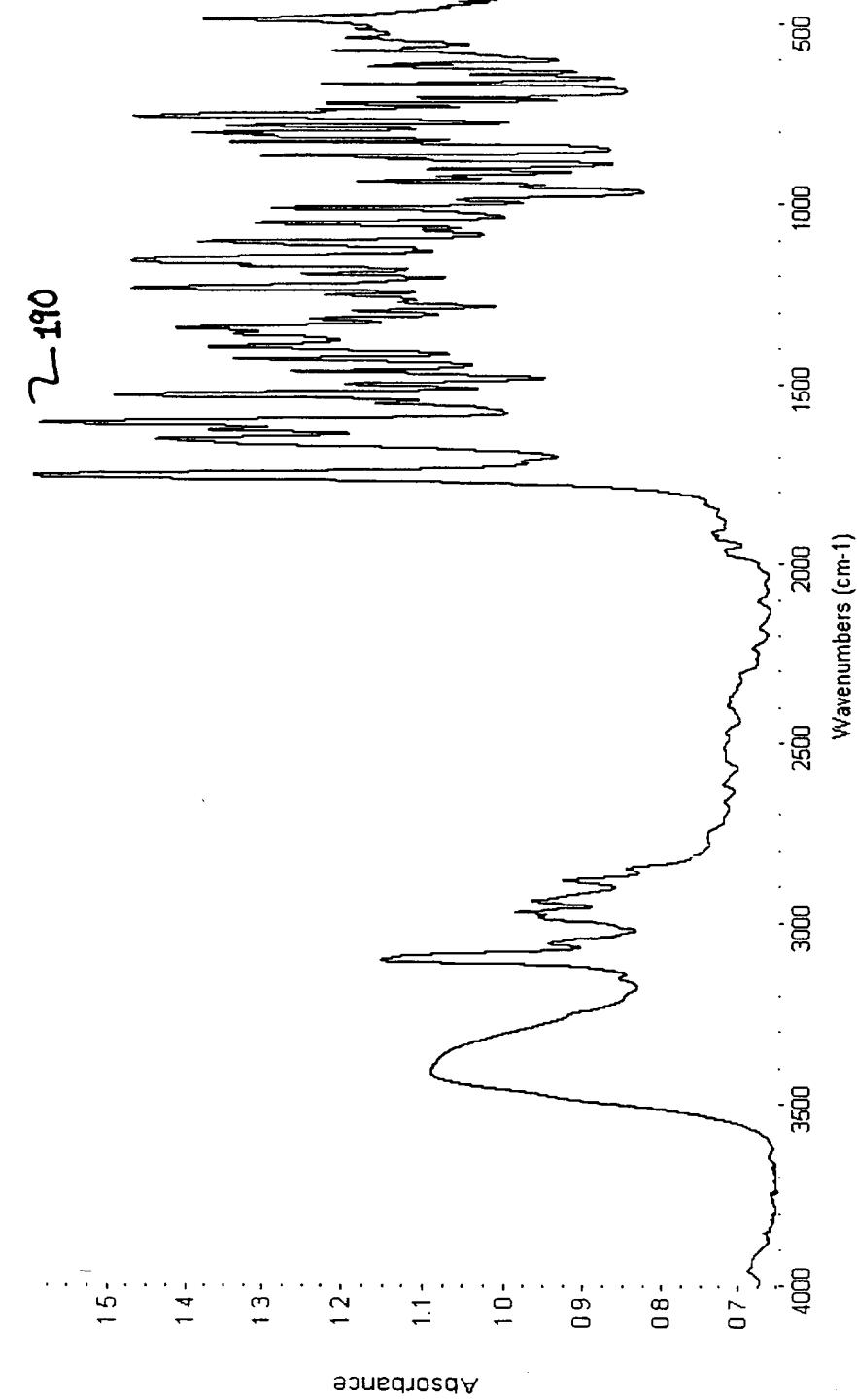


FIG. 19

Raman Spectrum, Nicolet model 860 FT-Raman

Acquisition Parameters

Collection time: Sat Feb 26 20:55:54 2000  
Number of sample scans: 128  
Number of background scans: 0  
Resolution: 4.000  
Sample gain: 64.0  
Mirror velocity: 0.3165  
Aperture: 59.00

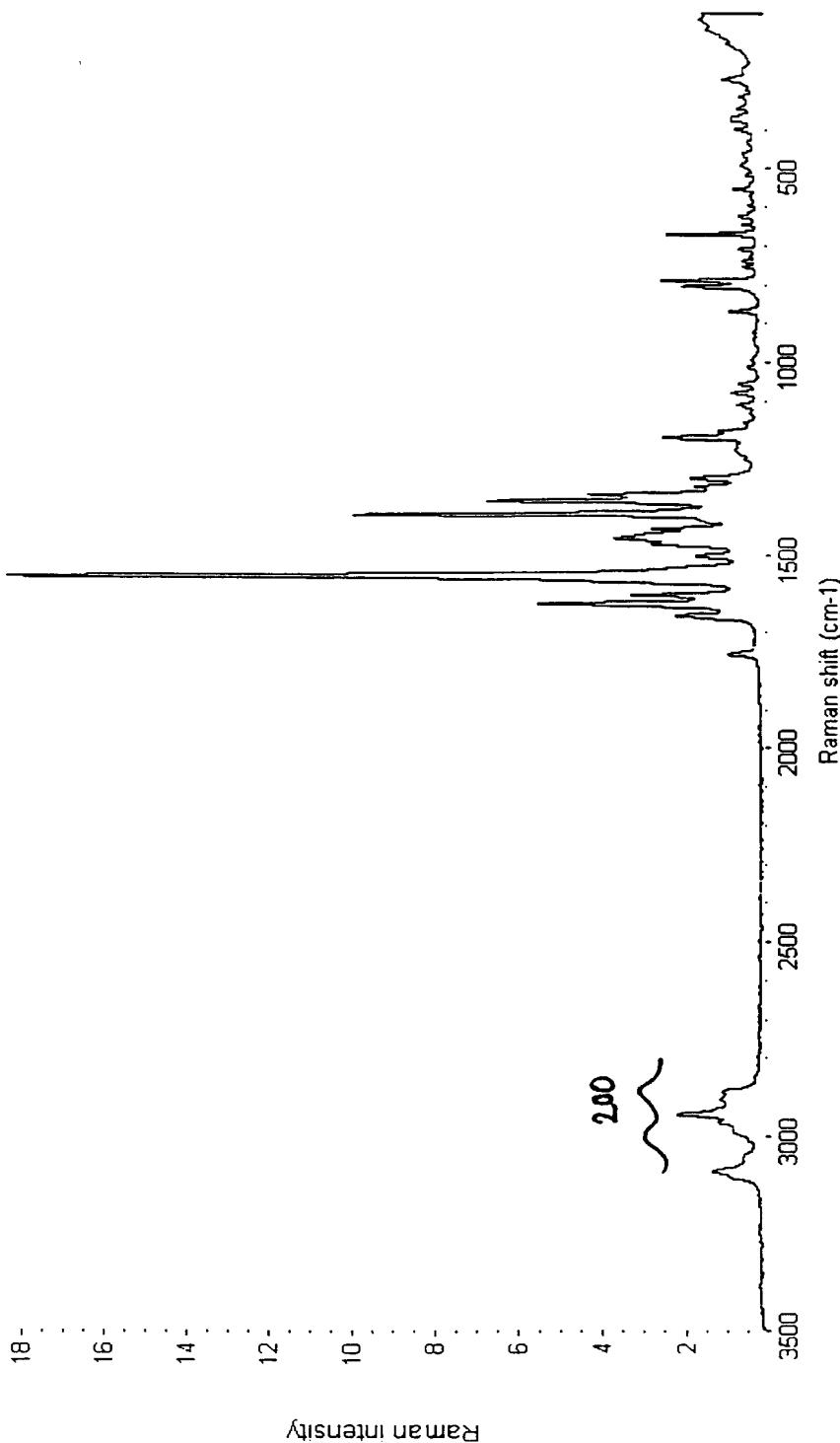


FIG. 20

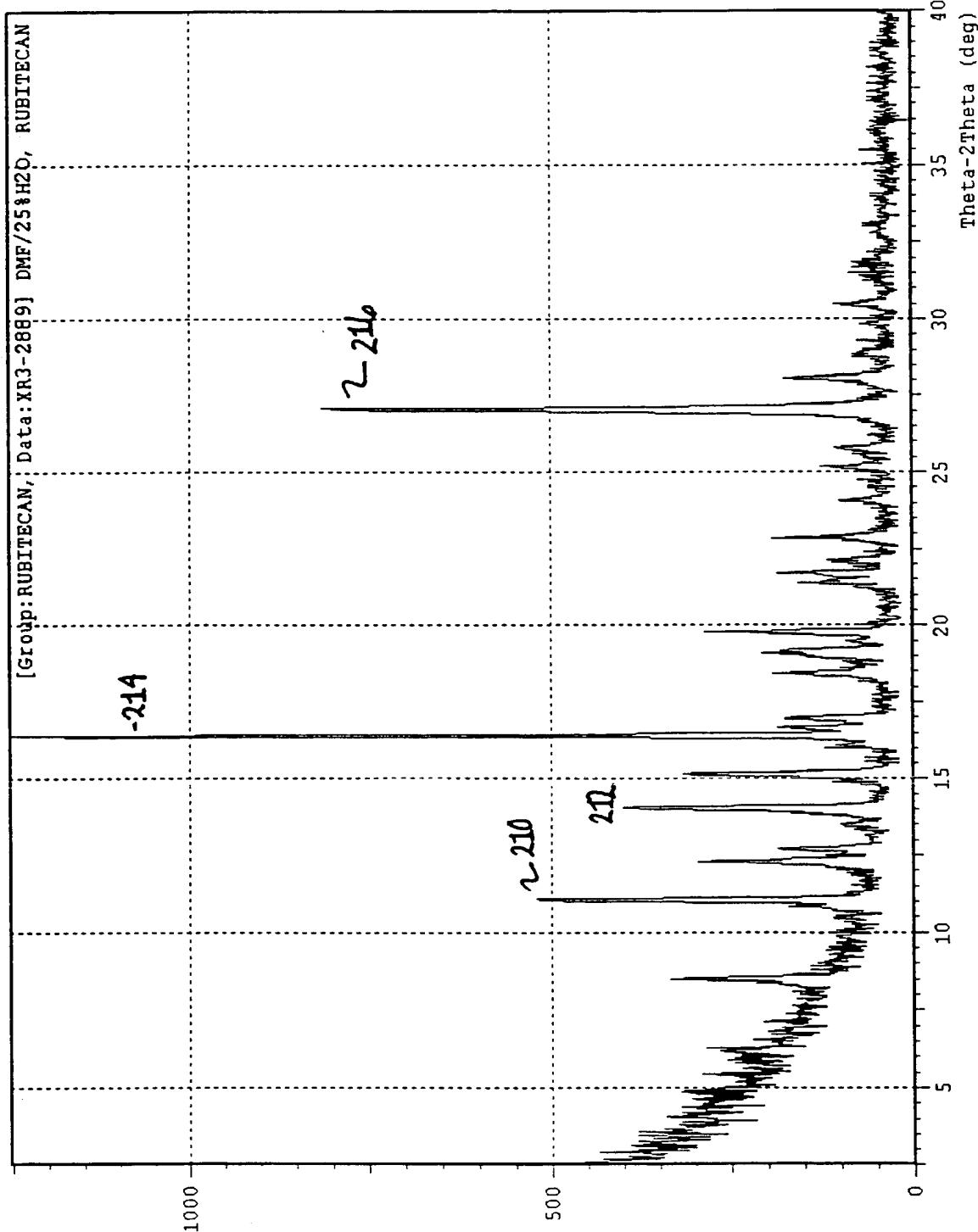


FIG. 21

TGA of Rubitecan Form F.

Sample: RUBITECAN  
Size: 0.6500 mg  
Method: RUBITECAN  
Comment: SSCI# 3131902, DMF/25%H<sub>2</sub>O, A VS C, NTBK 270-62

TGA

File: D:\dsdigal\g2-378.iga  
Operator: BAC  
Run Date: 4-Apr-00 10:07

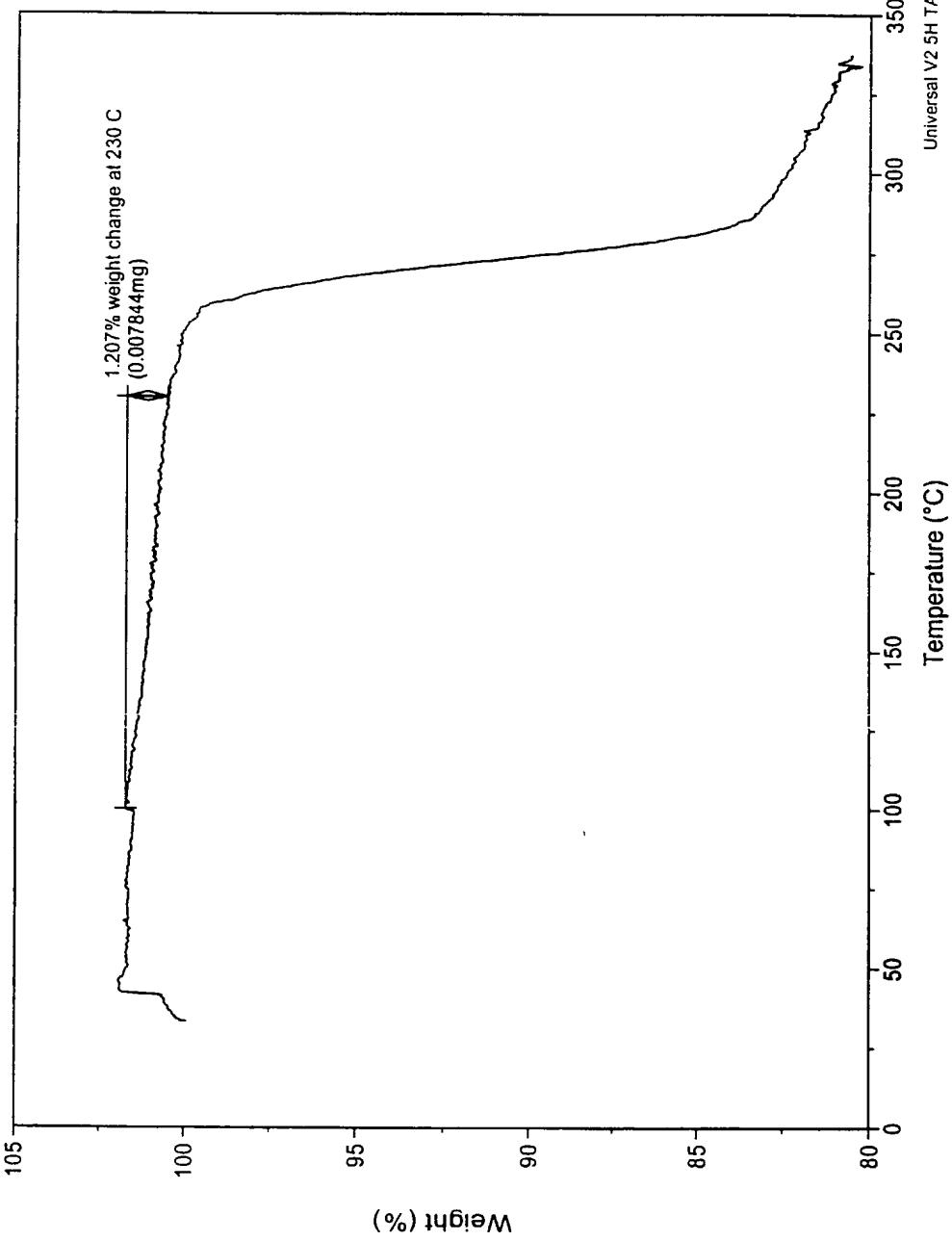


Fig. 22

**IR Spectrum, Nicolet model 860 FT-IR**

**Acquisition Parameters**

Collection time: Thu May 11 12:56:27 2000  
Number of sample scans: 256  
Number of background scans: 256  
Resolution: 4.000  
Sample gain: 8.0  
Mirror velocity: 0.6329  
Aperture: 100.00

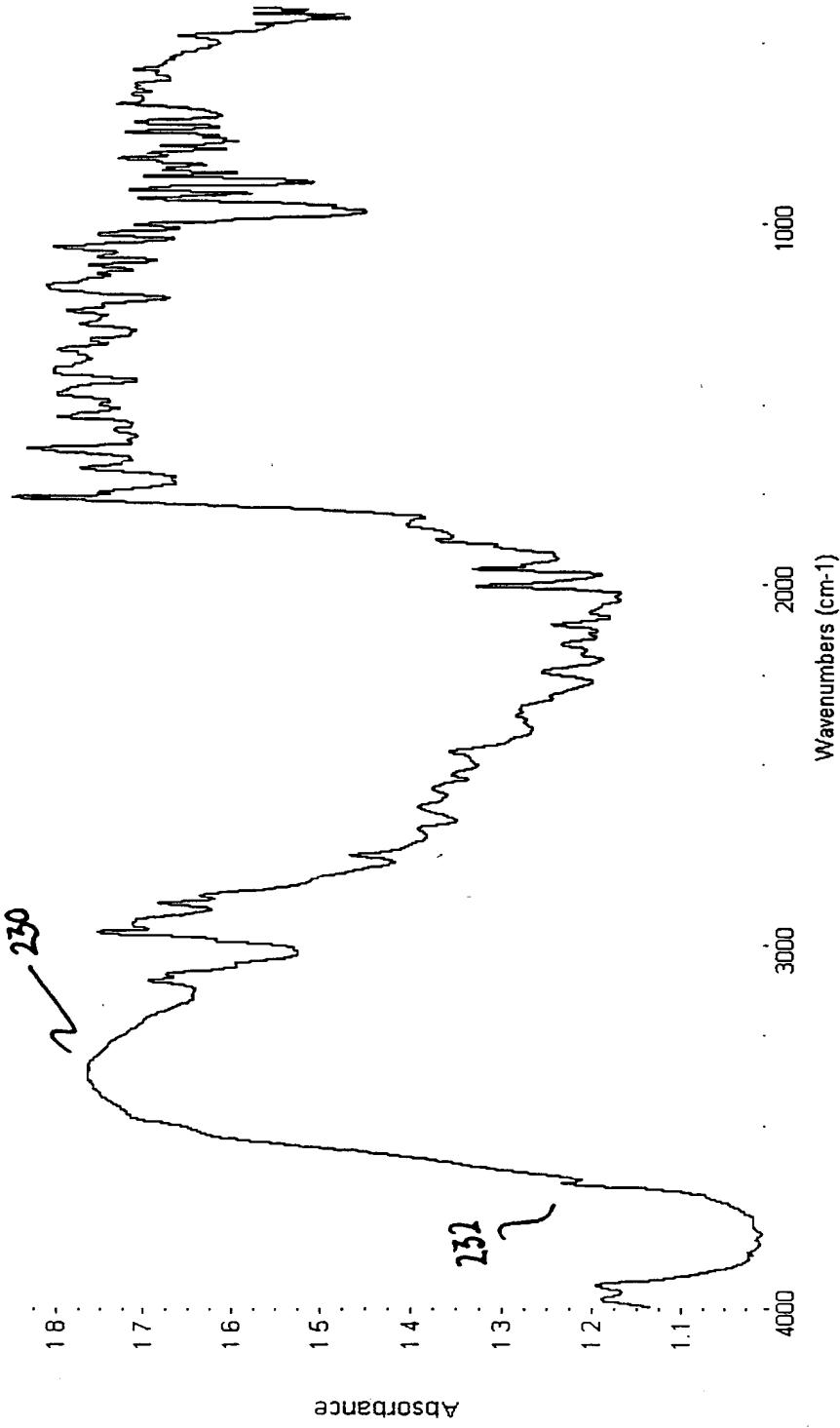


FIG. 23

Raman Spectrum, Nicolet model 860 FT-Raman

Acquisition Parameters

Collection time: Thu May 11 13:32:48 2000  
Number of sample scans: 128  
Number of background scans: 0  
Resolution: 4.000  
Sample gain: 32.0  
Mirror velocity: 0.3165  
Aperture: 59.00

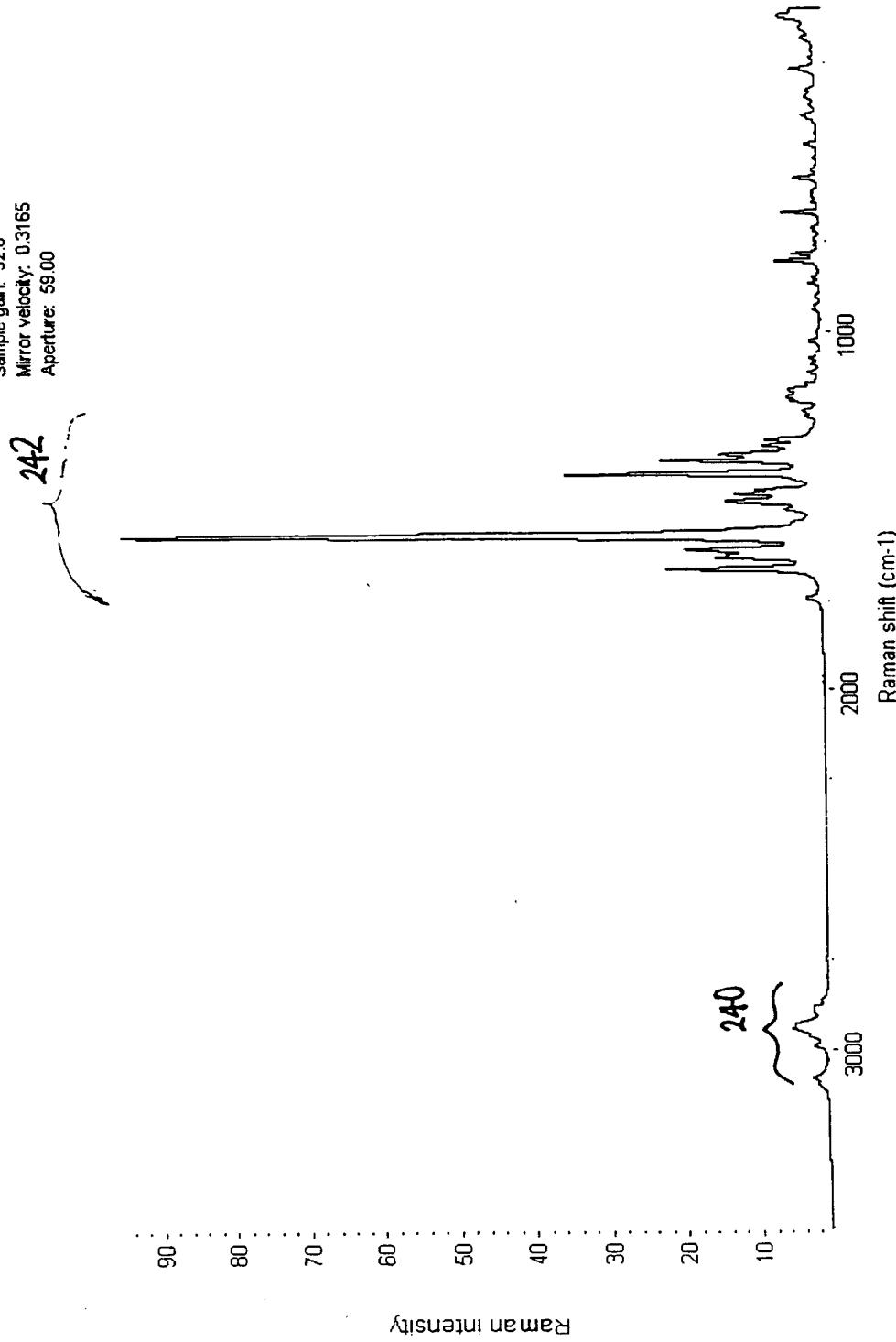


FIG. 24

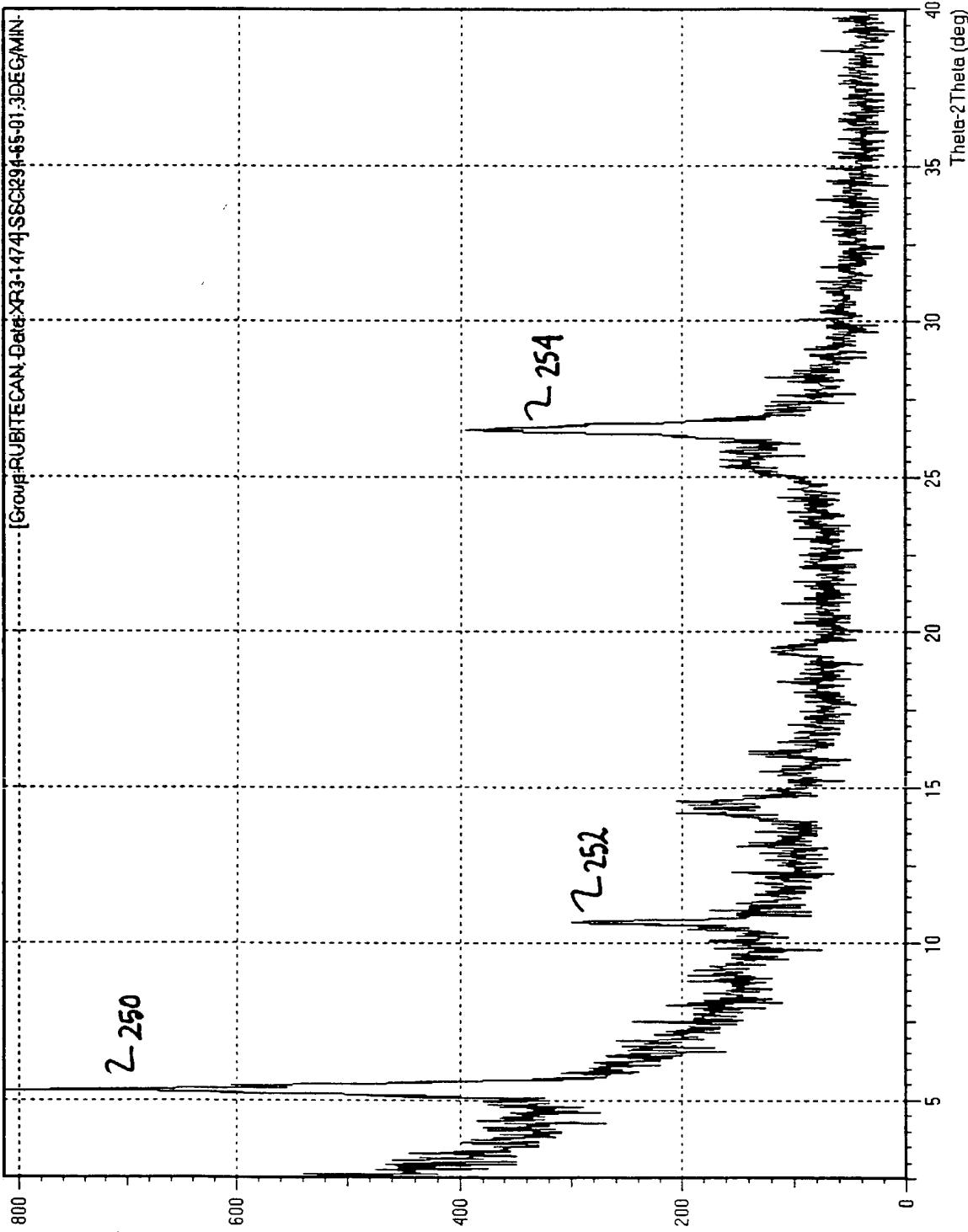
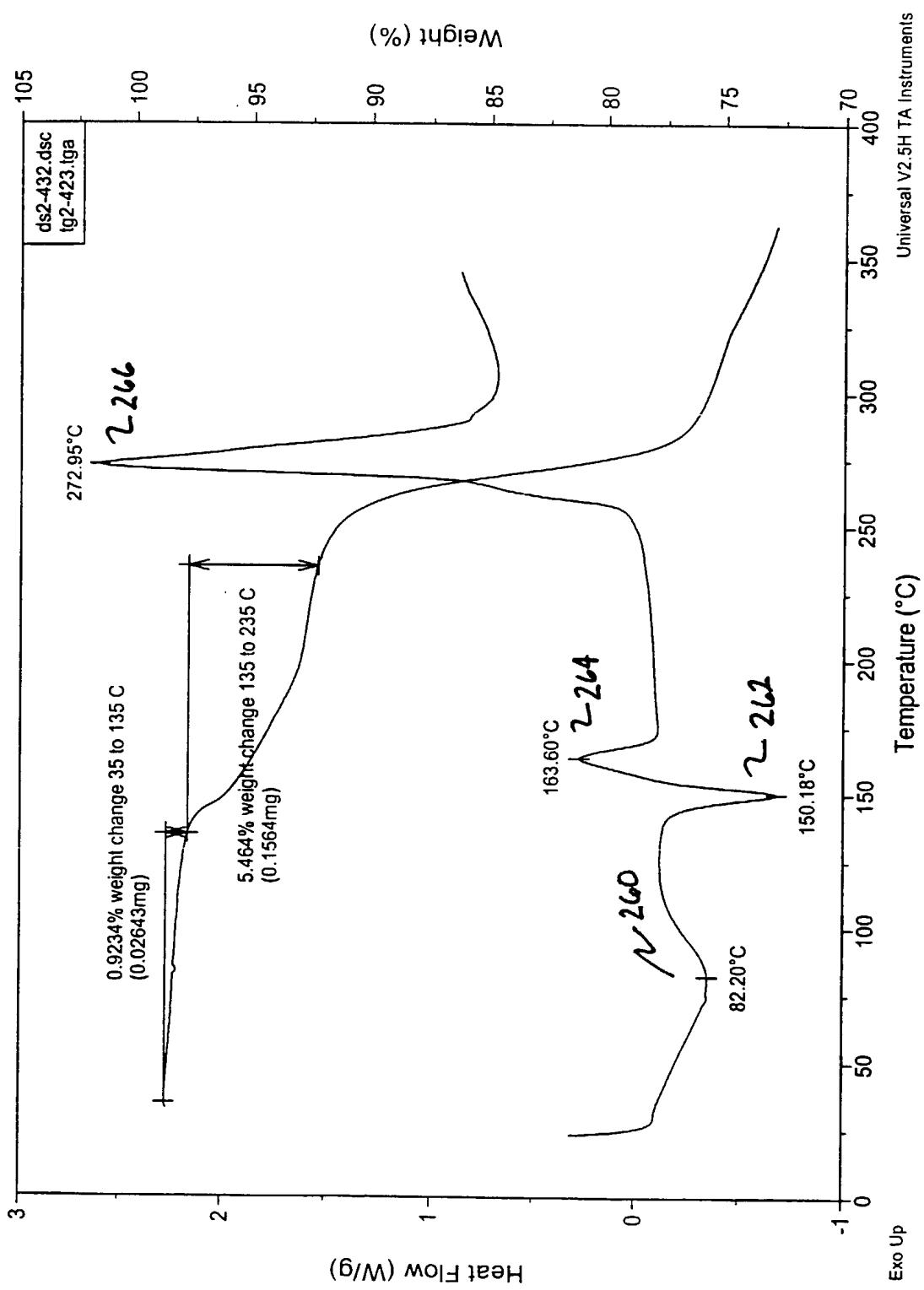


FIG. 25

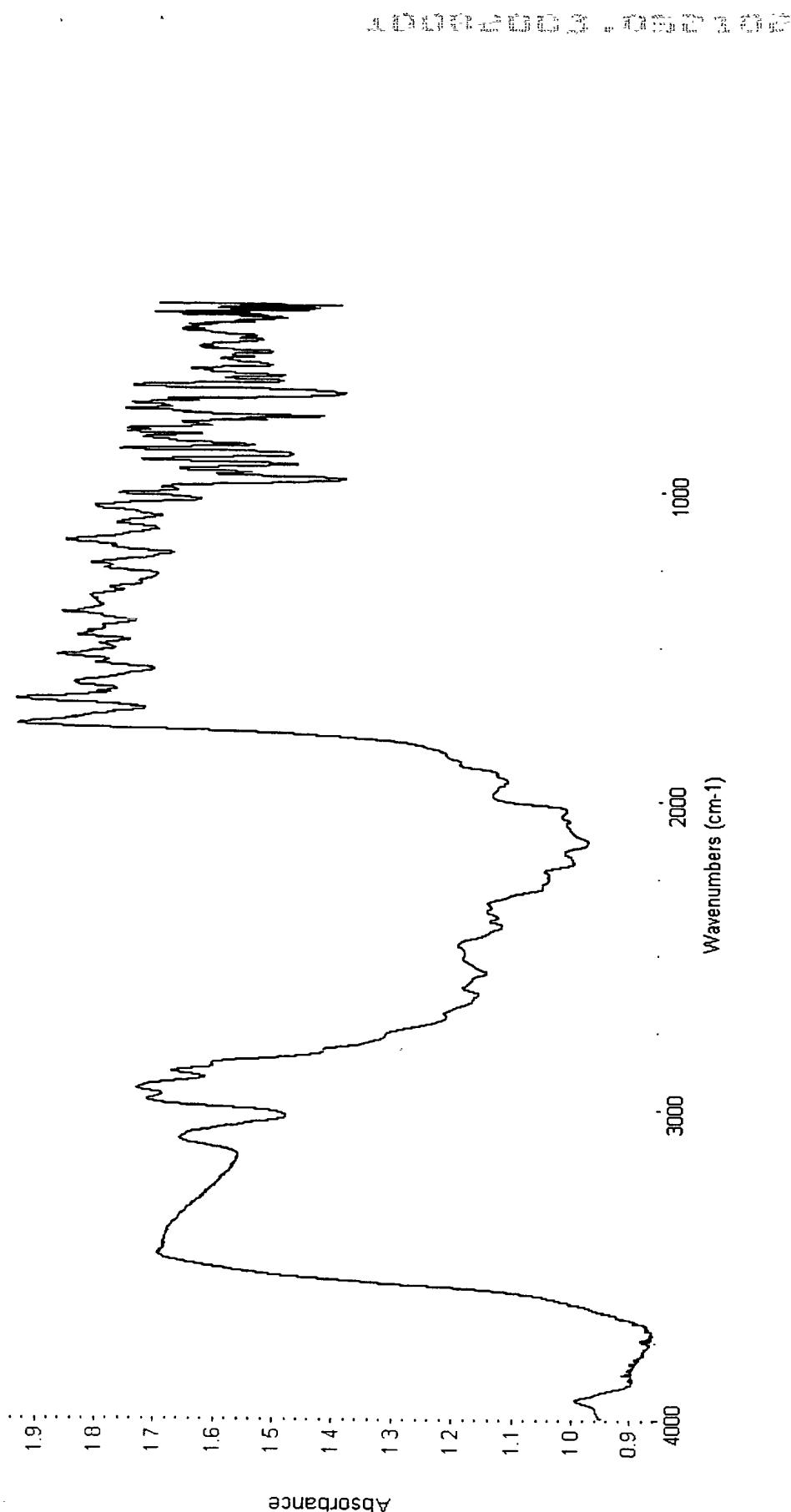
DSC (bottom) and TGA (top) of Rubitecan Form G.



**IR Spectrum, Nicolet model 860 FT-IR**

**Acquisition Parameters**

Collection time: Thu May 18 20:28:17 2000  
Number of sample scans: 128  
Number of background scans: 128  
Resolution: 2.0000  
Sample gain: 8.0  
Mirror velocity: 0.6329  
Aperture: 69.00



**FIG. 27**

Raman Spectrum, Nicolet model 860 FT-Raman

Acquisition Parameters

Collection time: Thu May 18 21:09:50 2000  
Number of sample scans: 128  
Number of background scans: 0  
Resolution: 4.000  
Sample gain: 4.0  
Mirror velocity: 0.3165  
Aperture: 59.46

282

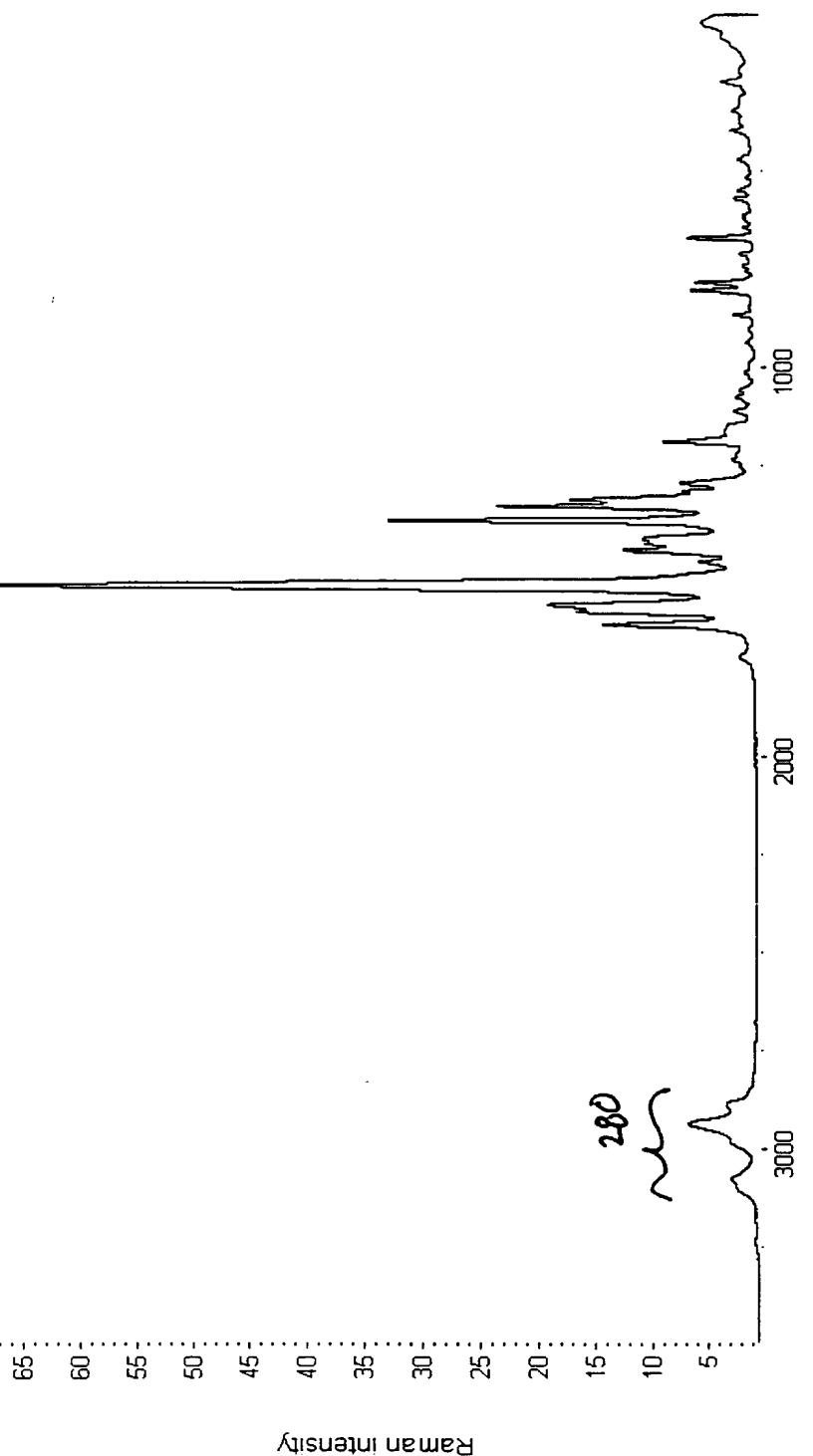
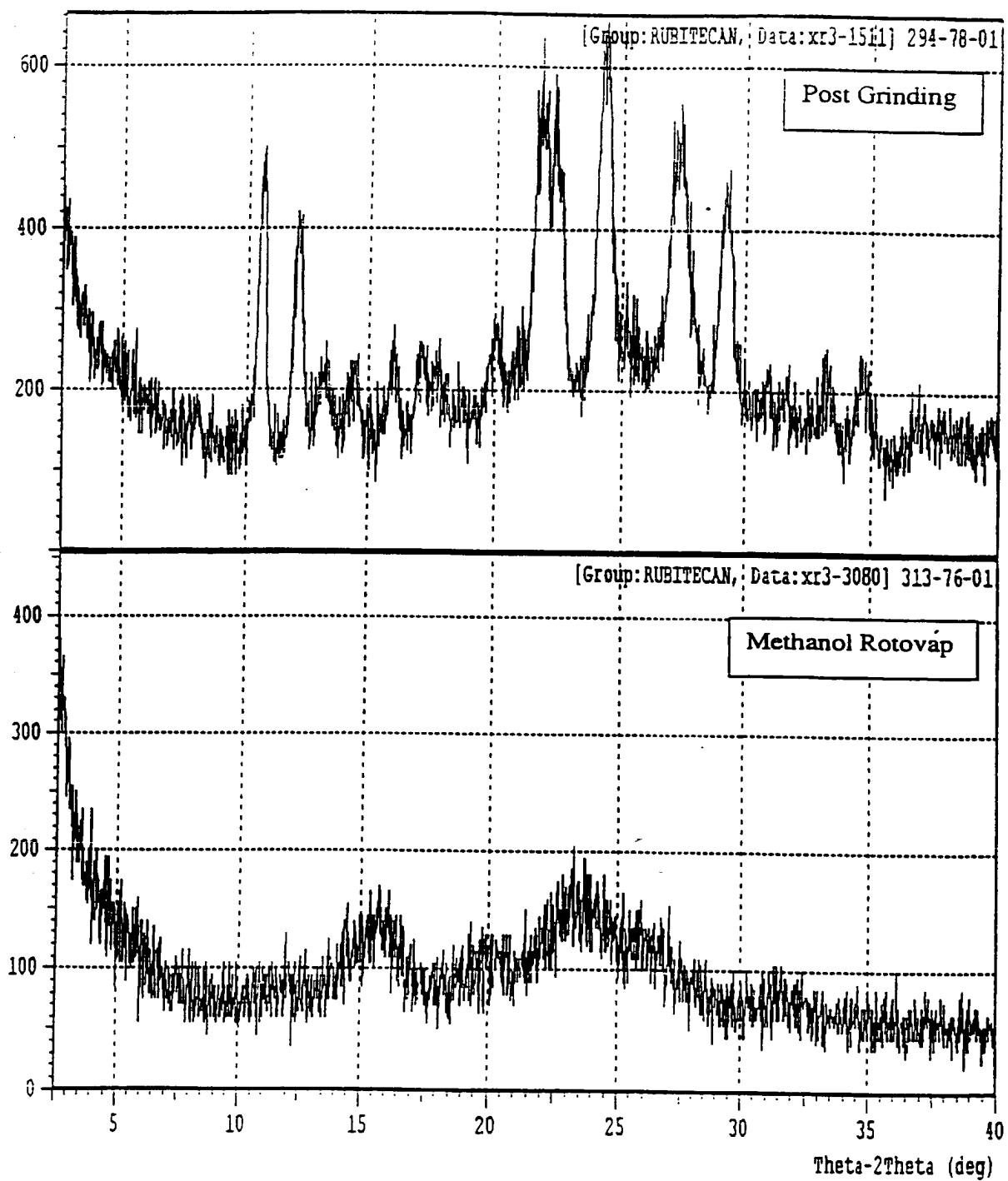


FIG. 28

## XRPD Patterns of Rubitecan Solid Forms Containing Amorphous Material.

\*\*\* Multi Plot \*\*\*



F16.29